

CLAIMS

1. An apparatus for updating an active set when a remote station is in an improved Control-Hold Mode, comprising:
 - means for transmitting a pilot strength measurement to a base station;
 - means for receiving a signaling message from the base station;
 - means for transitioning from the improved Control-Hold Mode to an Active Mode, wherein the transitioning is triggered by the signaling message;
 - means for receiving an acknowledgment message with update information from the base station;
 - means for updating the active set with the update information from the base station; and
 - means for transitioning from the Active Mode to the Control-Hold Mode.

2. An apparatus for a remote station to switch sectors in a base station while the remote station is in a Control-Hold Mode, comprising:
 - means for determining whether a channel quality indicator channel is presently gated off;
 - means for transmitting a message on the channel quality indicator channel to a different sector if the channel quality indicator channel is not completely gated off;
 - processing means, operative when the channel quality indicator channel is completely gated off, comprising:
 - means for transmitting a signaling message on a data control channel to the base station;
 - means for receiving a forward link acknowledgment message on a common assignment channel;
 - means for switching to a different sector; and
 - means for transmitting a reverse link acknowledgment message on the data control channel.

3. An apparatus for transitioning from an improved Control-Hold Mode to an Active Mode, wherein the transitioning is initiated by a remote station, the method comprising:

- means for transmitting a signaling message over a reverse data control channel to a base station while in the improved Control-Hold Mode;
- means for starting continuous transmissions over a channel quality indicator channel to the base station;
- means for starting the monitoring of a forward packet data channel and an associated control channel;
- means for receiving an acknowledgment signal over the forward packet data channel; and
- means for starting reverse link transmissions in accordance with the Active Mode.

4. An apparatus for transitioning a remote station from an improved Control-Hold Mode to an Active Mode, wherein the transitioning is initiated by a base station, the method comprising:

- means for transmitting a signaling message over a forward common assignment channel to the remote station, whereupon the signaling message is repeatedly transmitted until an acknowledgment signal is received from the remote station;
- means for transmitting an acknowledgment message over a reverse data control channel to the base station from the remote station;
- means for activating at least two feedback channels at the remote station; and
- means for starting the monitoring of a forward packet data channel and associated control channel at the remote station.